



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

FAA-STC SE10746SC

**Instructions for Continued Airworthiness for
Conversion of TCM IO-520-B, BB to RAM IO-550-B-RA
and TCM IO-520-C, -CB to RAM IO-550-C-RA**

Drawing 2692

Notice

This document must be referenced on Block 8 of FAA form 337 and added to the aircraft permanent record as required by 14 CFR Part 91, §91.417(a)(2)(vi) when the reference FAA-STC modification is accomplished on eligible aircraft. This document complies with the requirements of 14 CFR Part 33, §33.4, in accordance with 14 CFR Part 33, Appendix A.

Engine Serial No. _____



LOG OF REVISIONS

Rev.	Description	Date	Engineer
I.R.	Initial Release ECN 4276	11/07/2006	A. Jain



I. INTRODUCTION

This document provides instructions for continued airworthiness (ICA) for conversion from TCM IO-520-B, -BB engines to RAM IO-550-B-RA engine and from TCM IO-520-C, -CB engines to RAM IO-550-C engine in accordance with RAM Aircraft, L.P. Supplemental Type Certificate (STC) SE10746SC.

Updates to this document are available from RAM's Customer Service Department or online as follows:

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Website: www.ramaircraft.com

II. DESCRIPTION

The STC is to convert the Teledyne Continental Motors IO-520-B, -BB engines to RAM IO-550-B-RA engine and TCM IO-520-C, -CB engines to RAM IO-550-C-RA engine.

III. SPECIAL PROCEDURES

None

IV. SERVICING INFORMATION

The following document shall be followed for the operation of IO-550-B-RA and IO-550-C-RA engines.

- TCM IO-550-A, -B, C Maintenance and Operators Manual number X30565 dated October 1983 or later FAA approved revision.
- TCM IO-550 Permold Series Overhaul Manual, TCM Part No. X30568A, dated October 2000 or later FAA approved revision
- RAM Aircraft LP Overhaul Manual Supplement number 2693 dated November 7, 2006 or later FAA approved revision.



V. MAINTENANCE INSTRUCTIONS

The following document shall be followed for Parts, Overhaul, and Maintenance of IO-550-B-RA and IO-550-C-RA engines.

- TCM IO-550 Series Parts Catalog number X30569A dated September 1989 or later FAA approved revision.
- RAM Aircraft LP Parts Manual Supplement number 2694 dated November 7, 2006 or later FAA approved revision.
- TCM IO-550-A, -B, C Maintenance and Operators Manual number X30565 dated October 1983 or later FAA approved revision.
- TCM IO-550 Permold Series Overhaul Manual, TCM Part No. X30568A, dated October 2000 or later FAA approved revision
- RAM Aircraft LP Overhaul Manual Supplement number 2693 dated November 7, 2006 or later FAA approved revision.

VI. TROUBLESHOOTING

The following document shall be followed for Troubleshooting of the installation of IO-550-B-RA and IO-550-C-RA engines.

- TCM IO-550-A, -B, C Maintenance and Operators Manual number X30565 dated October 1983 or later FAA approved revision.
- TCM IO-550 Permold Series Overhaul Manual, TCM Part No. X30568A, dated October 2000 or later FAA approved revision

VII. REMOVAL AND REPLACEMENT

The following document shall be followed for removal and replacement of IO-550-B-RA and IO-550-C-RA engines.

- TCM IO-550-A, -B, C Maintenance and Operators Manual number X30565 dated October 1983 or later FAA approved revision.
- TCM IO-550 Permold Series Overhaul Manual, TCM Part No. X30568A, dated October 2000 or later FAA approved revision

VIII. SPECIAL INSPECTION REQUIREMENTS

None



IX. APPLICATION OF SPECIAL TREATMENTS

None

X. DATA

Per RAM Drawing 2691 Revision I.R., dated 11/07/2006 or later FAA approved revision.

XI. SPECIAL TOOLS

None

XII. ADDITIONAL INFORMATION FOR COMMUTER CATEGORY AIRCRAFT

None

XIII. AIRWORTHINESS LIMITATIONS SECTION

Note: The airworthiness limitations section is FAA approved and specifies maintenance required under §§ 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

- FAA Airworthiness Directives, TCM Service Letters, and TCM Service Bulletins that are applicable to TCM IO-550-B or IO-550-C engines are also applicable to the RAM IO-550-B-RA and IO-550-C-RA engines.
- All parts having mandatory replacement times or periodic inspection requirements, as specified in TCM manuals, are subject to the same requirements when used on the RAM IO-550-B-RA and IO-550-C-RA engines.